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CLAIMS

1. A cell line derived from human hepatic carcinoma capable of stably expressing human cytochromes P450.

- 2. The cell line according to claim 1, wherein human cytochromes P450 are capable of stably expressing CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 or CYP3A4.
- 3. The cultured cell line according to claim 1, wherein the human hepatic carcinoma cell is HepG2.
- 4. The cell line according to claim 1, which is Hepc/1A1.4, Hepc/1A2.9, Hepc/2B6.68, Hepc/2C8.46, Hepc/2C9.1, Hepc/2C19.12, Hepc/2D6.39, Hepc/2E1.3-8 or Hepc/3A4.5.
- 5. A method for analysis, which comprises using the cell line according to claim 1, said analysis being for (a) an enzyme participating in the metabolism of a xenobiotic and/or an endogenous substrate, (b) a metabolic pathway of a xenobiotic and/or an endogenous substrate, (c) a chemical structure of the metabolite of a xenobiotic and/or an endogenous substrate, (d) inhibition of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (e) an accelerated activity of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (f) cytotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (g) genotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (h) carcinogenicity by the metabolism of a xenobiotic and/or endogenous substrate, (i) mutagenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (j) hepatotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, or (k) a xenobiotic and/or an
- 6. A method for preparing the metabolite of a xenobiotic and/or an endogenous substrate, which comprises using the

endogenous substrate that acts on the liver.

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cell line according to claim 1.

- 7. A method for screening a substance, which comprises using the cell line according to claim 1, wherein the substance is (a) a substance capable of inhibiting a xenobiotic and/or an endogenous substrate, (b) a substance capable of accelerating an activity of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (c) a substance capable of expressing cytotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (d) a substance capable of expressing genotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (e) a substance capable of expressing carcinogenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (f) a substance capable of expressing mutagenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (g) a substance capable of expressing hepatotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (h) a xenobiotic and/or an endogenous substrate which acts on the liver, or (i) a substance capable of acquiring a new physiological activity or increasing or decreasing the inherent physiological activity, through the metabolism of a xenobiotic and/or an endogenous substrate.
- 8. A compound or its salt which is obtainable using the method according to claim 7.
 - 9. A pharmaceutical composition comprising the compound or its salt according to claim 8.
 - 10. A method for analysis, which comprises using at least two cultured cell lines derived from human liver capable of stably expressing at least one of CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 and CYP3A4, said analysis being for (a) an enzyme that participates in the metabolism of a xenobiotic and/or an endogenous substrate, (b) a metabolic pathway of a xenobiotic and/or an endogenous substrate, (c) a chemical

structure of the metabolite of a xenobiotic and/or an endogenous substrate, (d) inhibition of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (e) an accelerated activity of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (f) cytotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (g) genotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (h) carcinogenicity by the metabolism of a xenobiotic and/or endogenous substrate, (i) mutagenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (j) hepatotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, or (k) a xenobiotic and/or an endogenous substrate that acts on the liver.

11. A method for preparation of the metabolite of a xenobiotic and/or an endogenous substrate, which comprises using at least two cultured cell lines from human liver capable of stably expressing at least one of CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 and CYP3A4.

12. A method for screening a substance, which comprises using at least two cultured cell lines from human liver capable of stably expressing at least one of CYP1A1, CYP1A2, CYP2A6, CYP2B6, CYP2C8, CYP2C9, CYP2C19, CYP2D6, CYP2E1 and CYP3A4, said substance being (a) a substance capable of inhibiting the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (b) a substance capable of accelerating an activity of the metabolizing enzyme for a xenobiotic and/or an endogenous substrate, (c) a substance capable of expressing cytotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (d) a substance capable of expressing genotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (e) a substance capable of expressing carcinogenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (f) a

substance capable of expressing mutagenicity by the metabolism of a xenobiotic and/or an endogenous substrate, (g) a substance capable of expressing hepatotoxicity by the metabolism of a xenobiotic and/or an endogenous substrate, (h) a xenobiotic and/or an endogenous substrate which acts on the liver, or (i) a substance capable of acquiring a new physiological activity or increasing or decreasing the inherent physiological activity, through the metabolism of a xenobiotic and/or an endogenous substrate.

- 13. A compound or a salt thereof, which is obtainable using the method according to claim 12.
- 14. A pharmaceutical compound comprising a compound or a salt thereof according to claim 12.

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